

**Kindly Modify the Claims as Follows:**

Claim 4, line 1, kindly change "includes" to -- occurs by --.

Claim 4, line 2, kindly change "CaCL<sub>2</sub>" to -- CaCl<sub>2</sub> --

Claim 6, line 1, kindly insert -- altering the clotting time, yielding -- after "wherein".

Claim 10, line 1, kindly insert -- thrombin -- after "A".

Claim 10, line 1, kindly delete -- for extracting thrombin from plasma -- after "composition".

Claim 12, line 3, kindly insert -- only -- after "adding".

**Kindly Amend the Claims as Follows:**

Claim 1 (amended) - A method for generating [autologous] thrombin from a sole donor or a patient, the steps including:

obtaining a blood product from the patient;

sequestering plasma from the product;

maintaining the plasma undiluted and unprocessed;

enriching the prothrombin in a [plasma] fraction of the undiluted, unprocessed plasma;

converting the prothrombin to thrombin, and

filtering particulate from the thrombin.

Claim 3 (amended) - The method of claim 2 [including] wherein the enriching step occurs by adding ethanol to enrich the prothrombin in a plasma fraction.

Claim 8 - (amended) A method for producing autologous thrombin which is stable for more than 15 minutes, the steps including: -

sequestering pro[-]thrombin from plasma using ethanol and converting the pro[-]thrombin to thrombin by adding calcium ions.

## CLAIMS

I Claim:

Claim 1 - A method for generating autologous thrombin from a patient, the steps including:

obtaining a blood product from the patient;  
sequestering plasma from the product;  
enriching the prothrombin in a plasma fraction;  
converting the prothrombin to thrombin, and  
filtering particulate from the thrombin.

Claim 2 - The method of claim 1 further including the step of altering the clotting time.

Claim 3 - The method of claim 2 including adding ethanol to enrich the prothrombin in a plasma fraction.

Claim 4 - The method of claim 3 wherein the converting step <sup>occurs by</sup> includes adding  $\text{CaCl}_2$ .

Claim 5 - The method of claim 4 including centrifuging the blood product for obtaining plasma.

Claim 6 - The method of claim 2 wherein <sup>altering the clotting time, yielding</sup> a predictable clotting time extension occurs through diluting the thrombin with saline.

Claim 7 - The method of claim 6 including filtering the plasma by weight size and protein binding.

Claim 8 - A method for producing autologous thrombin which is stable for more than 15 minutes, the steps including:

sequestering pro-thrombin from plasma and converting the pro-thrombin to thrombin.

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Claim 9 - Autologous thrombin which provides fast clotting for more than 15 minutes.

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Claim 10 - <sup>thrombin</sup> A composition for extracting thrombin from plasma consisting essentially of:

Plasma;

Ethanol (ETOH);

CaCl<sub>2</sub>.

Claim 11 - The composition of claim 10 wherein ETOH is present at 13.6% and CaCl<sub>2</sub> is present at .023μm both by volume.

Claim 12 - A method for preparing thrombin comprising:

obtaining plasma;

adding <sup>only</sup> ETOH and CaCl<sub>2</sub> to the plasma, forming a composition;

agitating the composition;

filtering the composition of particulate, thereby passing the thrombin through the filter.

Claim 13 - A manifold with an integrated filter for preparing thrombin from plasma, comprising:

a dock for a plasma syringe on the manifold;

a receptacle for a solution of CaCl<sub>2</sub> and ETOH and a dock on the manifold therefore;

a dock for a thrombin receiving syringe to receive the thrombin through the filter;

the integrated filter located on the manifold and just upstream the thrombin receiving syringe.